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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PPQ-100 SERIES

Jameco Part Number 217277 (PPQ-100B)

.LOW COST, HIGH RELIABILITY

.UNIVERSAL AC INPUT/FULL RANGE

.BUILT IN EMI FILTER

.AC INPUT SURGE CURRENT LIMITING

.BUILT IN ACTIVE PFC FUNCTION

.PROTECTIONS:SHORT CIRCUIT/OVER LOAD/OVER VOLTAGE

MODEL / SPECIFICATION	PPQ-100B				PPQ-100C				PPQ-100D			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	5V	12V	-12V	-5V	5V	15V	-15V	-5V	5V	24V	12V	-12V
OUTPUT V. TOLERANCE	±3%	±8%	±5%	±5%	±3%	+10, -6%	±5%	±5%	±3%	±8%	±5%	±5%
OUTPUT RATED CURRENT	10A	3.4A	0.6A	0.6A	10A	2.6A	0.6A	0.6A	8A	2.0A	0.6A	0.6A
OUTPUT CURRENT RANGE	2-15A	0.3-4A	0-1A	0-1A	2-15A	0.3-4A	0-1A	0-1A	2-10A	0.3-4A	0-1A	0-1A
RIPPLE & NOISE (p-p)	100mV	150mV	100mV	100mV	100mV	150mV	100mV	100mV	100mV	200mV	100mV	100mV
LINE REGULATION	±1%	±2%	±2%	±1%	±1%	±2%	±2%	±1%	±1%	±2%	±2%	±1%
LOAD REGULATION	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%
DC OUTPUT MAX. POWER	101W				101W				102.4W			
EFFICIENCY	75%				76%				78%			
DC VOLTAGE ADJ.	CH1:+10%,-5%											
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz; 127~370VDC											
AC CURRENT	1.65A/115V 0.85A/230V											
INRUSH CURRENT	COLD START 40A											
LEAKAGE CURRENT	<3.5mA/240VAC											
OVERLOAD PROTECTION	105%~135% RESET:AUTO RECOVERY											
OVER VOLTAGE PROTECTION	CH1:5.75~6.75V											
OVER TEMP. PROTECTION	---											
TEMP. COEFFICIENT	±0.03% / °C (0~50°C)											
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 16ms											
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC											
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES											
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 50M Ohms											
WORKING TEMP., HUMIDITY	-10°C~+60°C (REFER TO OUTPUT DERATING CURVE), 20%~90% RH											
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH											
DIMENSION	7"*4.25"*1.6" (177.8*107.95*40.64mm)											
WEIGHT	0.5Kgs											
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED											
EMC STANDARDS	EN55022 CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-3-2,-3 VERIFICATION											

NOTE :

1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.

2.TOLERANCE：INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.

3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.

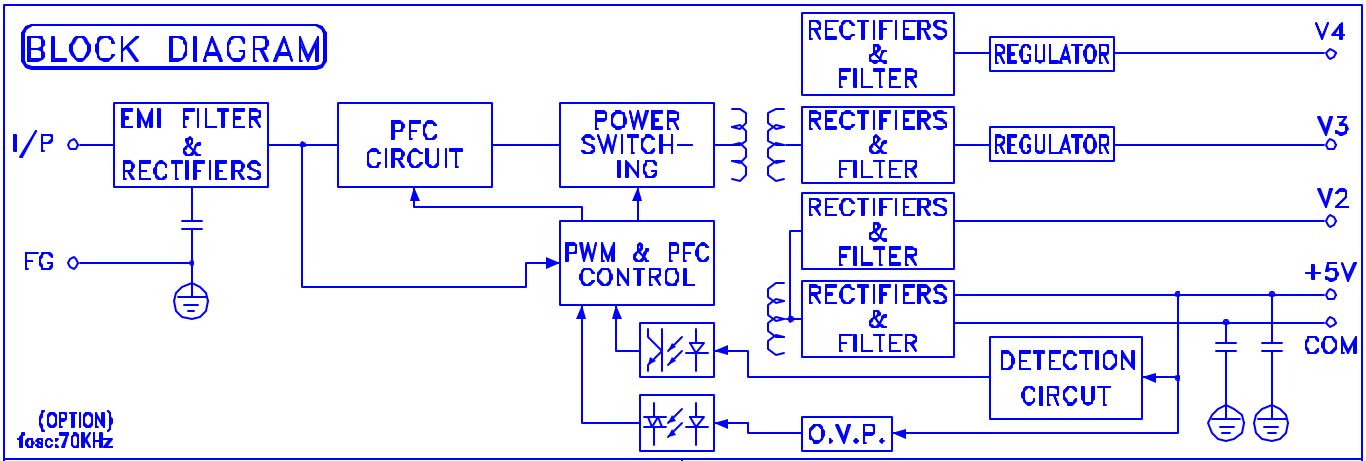
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.

5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.

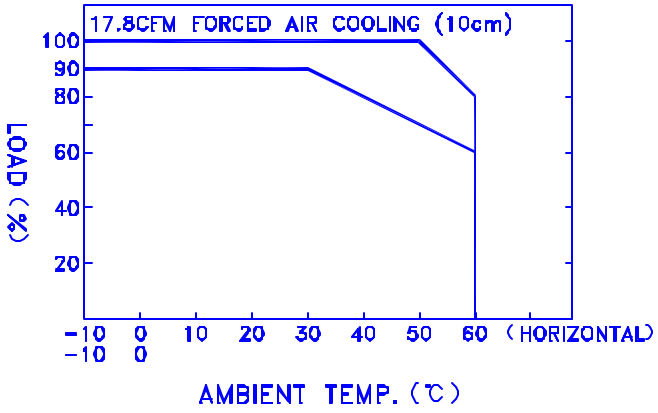
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

2002-09-19

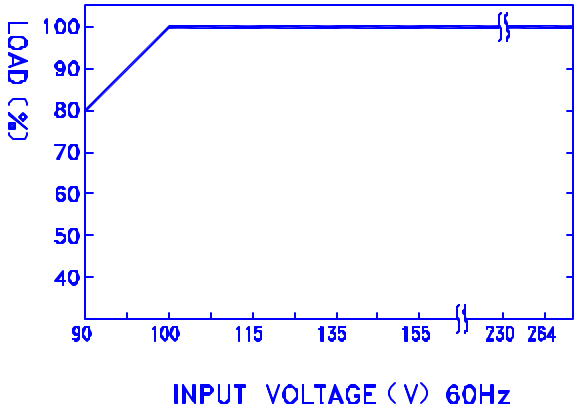
BLOCK DIAGRAM



OUTPUT DERATING VS Ta



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : JST B5P-VH
    PIN 1,3,5 : AC INPUT
  - CN2 : JST B5P-VH
    PIN 1,2 : DC OUTPUT V2
    PIN 4 : DC OUTPUT V3
    PIN 5 : DC OUTPUT V4
  - CN3 : JST B8P-VH
    PIN 1,2,3,4 : DC OUTPUT V1
    PIN 5,6,7,8 : DC OUTPUT COM
- MATING CONNECTORS
  - CN1,2,3 MATING CONNECTOR TYPE JST VHR SERIES OR EQUIVALENT WITH JST SVH-21T-1.1 OR EQUIVALENT CRIMP TERMINALS.